

10/557992**SEQUENCE LISTING****AP 20 Rec'd PCT/PTO 22 NOV 2005**

<110> Japan Science and Technology Corporation

<120> Probe for visualizing protein interaction and method of analyzing protein-protein interaction using the same

<130> 04F025PCT

<160> 6

<210> 1

<211> 300

<212> PRT

<213> *Renilla reniformis*

<400> 1

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Thr Gly Pro Gln Trp Trp Ala Arg Cys Lys Gln Met Asn Val Leu
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Asp Ser Phe Ile Asn Tyr Tyr Asp Ser Glu Lys His Ala Glu Asn
31          35          40          45
Ala Val Ile Phe Leu His Gly Asn Ala Ala Ser Ser Tyr Leu Trp
46          50          55          60
Arg His Val Val Pro His Ile Glu Pro Val Ala Arg Cys Ile Ile
61          65          70          75
Pro Asp Leu Ile Gly Met Gly Lys Ser Gly Lys Ser Gly Asn Gly
76          80          85          90
Ser Tyr Arg Leu Leu Asp His Tyr Lys Tyr Leu Thr Ala Trp Phe
91          95          100         105
Glu Leu Leu Asn Leu Pro Lys Lys Ile Ile Phe Val Gly His Asp
106         110         115         120
Trp Gly Ala Cys Leu Ala Phe His Tyr Cys Tyr Glu His Gln Asp
121         125         130         135
Lys Ile Lys Ala Ile Val His Ala Glu Ser Val Val Asp Val Ile
136         140         145         150
Glu Ser Trp Asp Glu Trp Pro Asp Ile Glu Glu Asp Ile Ala Leu
151         155         160         165
Ile Lys Ser Glu Glu Gly Glu Lys Met Val Leu Glu Asn Asn Phe
166         170         175         180
Phe Val Glu Thr Met Leu Pro Ser Lys Ile Met Arg Lys Leu Glu
181         185         190         195
Pro Glu Glu Phe Ala Ala Tyr Leu Glu Pro Phe Lys Glu Lys Gly
196         200         205         210
Glu Val Arg Arg Pro Thr Leu Ser Trp Pro Arg Glu Ile Pro Leu
211         215         220         225
Val Lys Gly Gly Lys Pro Asp Val Val Gln Ile Val Arg Asn Tyr

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226	230	235	240
Asn Ala Tyr Leu	Arg Ala Ser Asp Asp	Leu Pro Lys Met Phe	Ile
241	245	250	255
Glu Ser Asp Pro	Gly Phe Phe Ser Asn	Ala Ile Val Glu Gly	Ala
256	260	265	270
Lys Lys Phe Pro	Asn Thr Glu Phe Val	Lys Val Lys Gly Leu	His
271	275	280	285
Phe Ser Gln Glu	Asp Ala Pro Asp Glu	Met Gly Asn Tyr Ile	Gln
286	290	295	300

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Thr	Gly	Pro	Gln	Trp	Trp	Ala	Arg	Cys	Lys	Gln	Met	Asn	Val	Leu
16			20						25				30	
Asp	Ser	Phe	Ile	Asn	Tyr	Tyr	Asp	Ser	Glu	Lys	His	Ala	Glu	Asn
31			35						40				45	
Ala	Val	Ile	Phe	Leu	His	Gly	Asn	Ala	Ala	Ser	Ser	Tyr	Leu	Trp
46			50						55				60	
Arg	His	Val	Val	Pro	His	Ile	Glu	Pro	Val	Ala	Arg	Cys	Ile	Ile
61			65						70				75	
Pro	Asp	Leu	Ile	Gly	Met	Gly	Lys	Ser	Gly	Lys	Ser	Gly	Asn	Gly
76			80						85				90	
Ser	Tyr	Arg	Leu	Leu	Asp	His	Tyr	Lys	Tyr	Leu	Thr	Ala	Trp	Phe
91			95						100				105	
Glu	Leu	Leu	Asn	Leu	Pro	Lys	Lys	Ile	Ile	Phe	Val	Gly	His	Asp
106			110						115				120	
Trp	Gly	Ala	Ala	Leu	Ala	Phe	His	Tyr	Cys	Tyr	Glu	His	Gln	Asp
121			125						130				135	
Lys	Ile	Lys	Ala	Ile	Val	His	Ala	Glu	Ser	Val	Val	Asp	Val	Ile
136			140						145				150	
Glu	Ser	Trp	Asp	Glu	Trp	Pro	Asp	Ile	Glu	Glu	Asp	Ile	Ala	Leu
151			155						160				165	

Ile	Lys	Ser	Glu	Glu	Gly	Glu	Lys	Met	Val	Leu	Glu	Asn	Asn	Phe
166				170					175					180
Phe	Val	Glu	Thr	Met	Leu	Pro	Ser	Lys	Ile	Met	Arg	Lys	Leu	Glu
181				185					190					195
Pro	Glu	Glu	Phe	Ala	Ala	Tyr	Leu	Glu	Pro	Phe	Lys	Glu	Lys	Gly
196				200					205					210
Glu	Val	Arg	Arg	Pro	Thr	Leu	Ser	Trp	Pro	Arg	Glu	Ile	Pro	Leu
211				215					220					225
Val	Lys	Gly	Gly	Lys	Pro	Asp	Val	Val	Gln	Ile	Val	Arg	Asn	Tyr
226				230					235					240
Asn	Ala	Tyr	Leu	Arg	Ala	Ser	Asp	Asp	Leu	Pro	Lys	Met	Phe	Ile
241				245					250					255
Glu	Ser	Asp	Pro	Gly	Phe	Phe	Ser	Asn	Ala	Ile	Val	Glu	Gly	Ala
256				260					265					270
Lys	Lys	Phe	Pro	Asn	Thr	Glu	Phe	Val	Lys	Val	Lys	Gly	Leu	His
271				275					280					285
Phe	Ser	Gln	Glu	Asp	Ala	Pro	Asp	Glu	Met	Gly	Asn	Tyr	Ile	Gln
286				290					295					300

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<213> Artificial Sequence

<223> Synthesized Oligopeptide

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Ser	Leu	Glu												
16														

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<212> PRT

<213> Artificial Sequence

<223> Synthesized Oligopeptide

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Thr	Gly	Pro	Gln	Trp	Trp	Ala	Arg	Cys	Lys	Gln	Met	Asn	Val	Leu
16				20					25					30
Asp	Ser	Phe	Ile	Asn	Tyr	Tyr	Asp	Ser	Glu	Lys	His	Ala	Glu	Asn
31				35					40					45
Ala	Val	Ile	Phe	Leu	His	Gly	Asn	Ala	Ala	Ser	Ser	Tyr	Leu	Trp
46				50					55					60
Arg	His	Val	Val	Pro	His	Ile	Glu	Pro	Val	Ala	Arg	Cys	Ile	Ile
61				65					70					75
Pro	Asp	Leu	Ile	Gly	Met	Gly	Lys	Ser	Gly	Lys	Ser	Gly	Asn	Gly
76				80					85					90
Ser	Cys	Leu	Ser	Leu	Ala	Ser	Asn	Asn	Gly	Asn	Gly	Arg	Asn	Gly
91				95					100					105
Ala	Ser	Leu	Glu	Thr	Glu	Glu	Tyr	Met	Lys	Met	Asp	Leu	Gly	Pro
106				110					115					120
Gly	Thr	Arg	Glu	Gln	Lys	Leu	Ile	Ser	Glu	Glu	Asp	Leu		
121				125					130					

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Met	Asp	Ala	Glu	Trp	Tyr	Trp	Gly	Asp	Ile	Ser	Arg	Glu	Glu	Val
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Asn	Glu	Lys	Leu	Arg	Asp	Thr	Ala	Asp	Gly	Thr	Phe	Leu	Val	Arg
16				20					25					30
Asp	Ala	Ser	Thr	Lys	Met	His	Gly	Asp	Tyr	Thr	Leu	Thr	Leu	Arg
31				35					40					45
Lys	Gly	Gly	Asn	Asn	Lys	Leu	Ile	Lys	Ile	Phe	His	Arg	Asp	Gly
46				50					55					60
Lys	Tyr	Gly	Phe	Ser	Asp	Pro	Leu	Thr	Phe	Asn	Ser	Val	Val	Glu
61				65					70					75
Leu	Ile	Asn	His	Tyr	Arg	Asn	Glu	Ser	Leu	Ala	Gln	Tyr	Asn	Pro
76				80					85					90
Lys	Leu	Asp	Val	Lys	Leu	Leu	Tyr	Pro	Val	Ser	Lys	Tyr	Gln	Gln
91				95					100					105
Pro	Arg	Gly	Asn	Asn	Gly	Gly	Asn	Asn	Asp	Val	Met	Ala	Ile	Ala
106				110					115					120
Ala	Asn	Tyr	Arg	Leu	Leu	Asp	His	Tyr	Lys	Tyr	Leu	Thr	Ala	Trp
121				125					130					135
Phe	Glu	Leu	Leu	Asn	Leu	Pro	Lys	Lys	Ile	Ile	Phe	Val	Gly	His
136				140					145					150

Asp Trp Gly Ala Cys Leu Ala Phe His Tyr Ser Tyr Glu His Gln		
151	155	160 165
Asp Lys Ile Lys Ala Ile Val His Ala Glu Ser Val Val Asp Val		
166	170	175 180
Ile Glu Ser Trp Asp Glu Trp Pro Asp Ile Glu Glu Asp Ile Ala		
181	185	190 195
Leu Ile Lys Ser Glu Glu Gly Glu Lys Met Val Leu Glu Asn Asn		
196	200	205 210
Phe Phe Val Glu Thr Met Leu Pro Ser Lys Ile Met Arg Lys Leu		
211	215	220 225
Glu Pro Glu Glu Phe Ala Ala Tyr Leu Glu Pro Phe Lys Glu Lys		
226	230	235 240
Gly Glu Val Arg Arg Pro Thr Leu Ser Trp Pro Arg Glu Ile Pro		
241	245	250 255
Leu Val Lys Gly Gly Lys Pro Asp Val Val Gln Ile Val Arg Asn		
256	260	265 270
Tyr Asn Ala Tyr Leu Arg Ala Ser Asp Asp Leu Pro Lys Met Phe		
271	275	280 285
Ile Glu Ser Asp Pro Gly Phe Phe Ser Asn Ala Ile Val Glu Gly		
286	290	295 300
Ala Lys Lys Phe Pro Asn Thr Glu Phe Val Lys Val Lys Gly Leu		
301	305	310 315
His Phe Ser Gln Glu Asp Ala Pro Asp Glu Met Gly Lys Tyr Ile		
316	320	325 330
Lys Ser Phe Val Glu Arg Val Leu Lys Asn Glu Gln Pro Arg Asp		
331	335	340 345
Tyr Lys Asp Asp Val Val Lys		
346	350	